

# Academy

California Academy of Sciences – Golden Gate Park

April/May 1999



**The Elkus Collection  
Opens**

**The Academy  
Salutes Its Volunteers**

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To explore and explain the natural world

STEINHART AQUARIUM • MORRISON PLANETARIUM • NATURAL HISTORY MUSEUM



## Executive Director's Message

It's a busy time at the Academy. Spring is here and we couldn't be more excited about what's going on now and what we're looking forward to in the months ahead.

*Masters of the Night: The True Story of Bats* has received rave reviews from our patrons and the press, and it is with great anticipation that we look forward to our summer exhibition on hominid evolution, *Missing Links—Alive! Missing Links* will open in May with complementary programming including a lecture series and a special issue of *California Wild* dedicated the exhibit's subject matter.

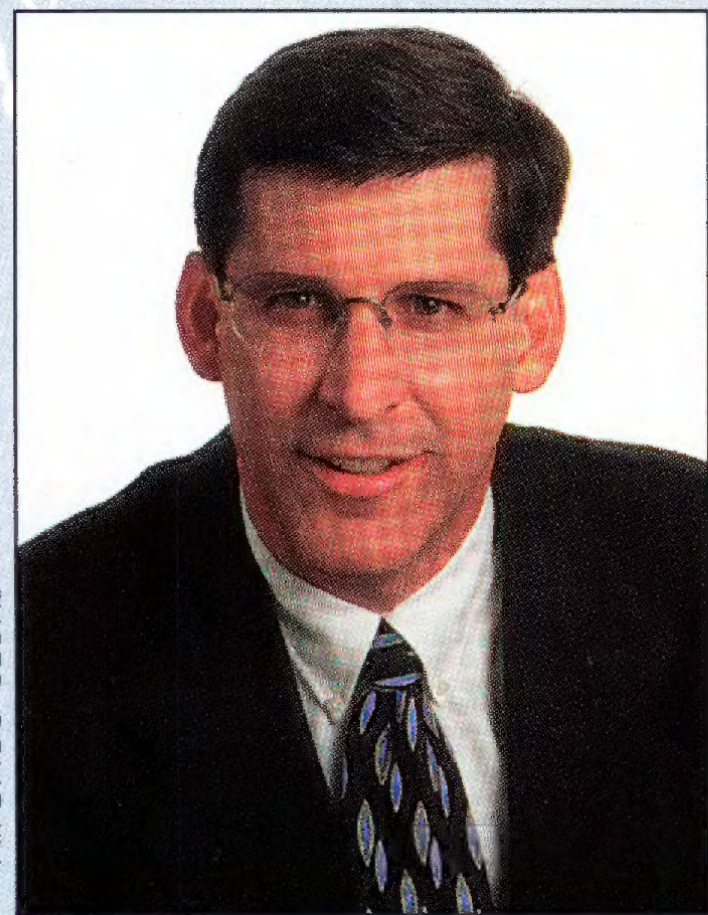


PHOTO: DONG LIN

In research, Dr. Nina Jablonski's finds of fossil rhino and elephant remains, and the work of Louie Marinovich with fossil mollusks, have led us to a better understanding of past climates in Nepal and the Bering Strait, respectively. A successful expedition to Yunnan, China, part of our China Natural History Project, was completed and our scientists are just now focusing their attention on the many diverse plants, fishes, insects, spiders and even diatoms that were collected. Collaborators from China will be coming to San Francisco later in the year to continue our cooperative project. We appreciate the support of the Consul General of the People's Republic of China here in San Francisco, and many members of the community who have made this project possible.

I am pleased to report that Dr. Alan Leviton, Curator in our Herpetology Department and former Executive Director of the Pacific Division of the American Association for the Advancement of Science, has been honored by the establishment with an award bearing his name. The Leviton Award for Outstanding Achievement in the Science Education of Children and Youth, was established to recognize Dr. Leviton's more than two decades of service as Executive Director of the Pacific Division. The award is intended to recognize achievement in the education of children and youth in science, an area in which Dr. Leviton has more than excelled.

Cont. on pg. 12

## The Search and Discovery of our Earliest Ancestors

with Meave Leakey

In a rare North American appearance, and in conjunction with *Missing Links—Alive!*, an exhibit on the mysteries of human origins opening at the Academy on May 29, Dr. Meave Leakey will discuss her research that has shed light on some of the most fundamental mysteries of human evolution. Dr. Leakey has spent the last 30 years digging in Africa, uncovering fossilized clues to the origins of our earliest ancestors. Dr. Leakey will be making a special visit to *Missing Links—Alive!* from the National Museums of Kenya, where she has been Head of the Paleontology Division since 1969.

Meave's research has focused on fossils recovered from the long-term field work in the Turkana basin and includes the evolution of monkeys, apes, carnivores, and mammalian faunas. Both Meave and Richard Leakey served on the Scientific Advisory Board for the creation of *Missing Links—Alive!*. The hominids, or early humans, that are animated in this exhibit are based heavily on the discoveries by both of these internationally renowned scientists.

For information on purchasing tickets, please call our Adult Education Department at (415) 750-7097.

## Tell Us What You Really Think

By now you're familiar with the Academy's seven month-old planning process. The purpose of this process is to ensure that the Academy of the 21st century truly reflects a myriad of factors such as our institution's educational and research needs, exhibit space considerations, future museum trends, and the ideas and concerns of our members. Executive Director Patrick Kociolek has held a series of very fruitful and insightful focus groups both with members and Academy staff in an effort to get everyone's opinions. For our purposes, 'focus group' is an elaborate way of saying opinion-sharing-and-brainstorming-session. Take advantage of a series of upcoming focus groups and please, tell us what you *really* think.

May 13 (Thursday) 1-3 pm Trustees Room  
May 15 (Saturday) 9:30-11:30 am, 1-3 pm Trustees Room  
May 24 (Monday) 9:30-11:30 am, 1-3 pm Trustees Room  
Meet at the Membership Desk at the Main Entrance to the Academy

**Any questions, please contact the Membership Office at (415) 750-7112**



## ERRATA

Please note that the date for the Opening of **THE ELKUS COLLECTION, Changing Traditions in Native American Art**, is incorrect: it should be May 15, 1999, a Saturday.

Members may preview this important collection on May 12, at the annual **Open House for Members** from 6 PM to 9 PM.

Ref.  
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Apr/May 1999

CALIFORNIA  
ACADEMY OF SCIENCES

APR - 2 1999

LIBRARY



# The Elkus Collection

Changing Traditions in Native American Art

Opens April 17, 1999

Many centuries before European explorers found their way to



Kochina Doll

the western hemisphere, the Navajo and Pueblo Indians of what is now New Mexico developed a distinctive and complex civilization, with a highly developed art in pottery, weaving, jewelry, leather work and other crafts. By the early 20th century, however, the cultural intersection with Europeans was complete and irreversible. Life for these peoples had

been changed forever. Many of these changes are reflected in the several hundred pieces displayed in The Elkus Collection.

This exhibition contains a vast array of pottery, jewelry, carvings, paintings, textiles, and basketry. It illustrates a time when the creation of functional and traditional pieces shifted to creating art sold to European-Americans for a living. Pieces date from the late 19th century through the 1970's, and are primarily from the Navajo and Pueblo peoples.

San Francisco residents Charles and Ruth de Young Elkus recognized the need to encourage and support artists from these diverse cultures, and actively sought talented artisans who lacked the resources to distribute their art. The Elkus' early support helped some of the leading names in 20th century Native American art – Maria and Julian Martinez, Lucy Lewis, and

Pablita Velarde – and they were able to achieve international recognition and acclaim for their works.



Red Birds, Pablita Velarde

Coming Soon

Missing Links—Alive!

May 29 - September 6, 1999

CALIFORNIA  
ACADEMY OF SCIENCES  
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LIBRARY

Considered one of the most comprehensive exhibit on the mysteries of human origins ever created, *Missing Links—Alive!* takes you back through evolutionary time and traces the path that leads to contemporary humans. Fossils and scientific displays are combined with animated re-creations of how human ancestors might have lived as far back as four million years ago.

*Missing Links—Alive!* was developed in Europe by more than 20 of the world's leading paleontologists and anthropologists, and is based on more than a century of painstaking scientific detective work to solve the puzzle of humanity's existence. Through a variety of hands-on exhibits, learn what kind of food our ancestors ate, compare hand size and walking styles, and discover the similar living styles, such as living in family groups, the use of tools and technology to solve problems, and the use of artwork as a means of expression.

Accompanying the exhibit are some of the first fired-clay



Venus of Dolni Vestonice

objects originating in Europe 22,000 to 28,000 years ago. These treasures are on loan from the Moravian Museum Brno in the Czech Republic.



Neanderthals Burying the Dead

The highlight of this collection is the renowned Dolni Vestonice Venus, one of the oldest known ceramic sculptures.

The Academy will also feature a cast of the 3.2 million year old partial skeleton known as Lucy. This cast, one of only two that is mounted in an upright, three-dimensional display, is on loan from the University of California Museum of Paleontology is one of the best known human fossils. Lucy was a critical specimen in the naming of a new species in the human family, *Australopithecus afarensis*. Since its discovery in Ethiopia in 1974 by Academy Fellow Donald Johanson of the Institute of Human Origins, Lucy has led anthropologists to rethink the roots of the human tree.



# AT THE ACADEMY

## The Academy Salutes Its Volunteers And National Volunteer Week

In each issue of Academy, the volunteer department features an Outstanding Volunteer. However, since National Volunteer Week is April 18 - 24, it seems appropriate to recognize the achievements of the entire staff of 1196 generous individuals whose time (totaling 63,300 hours), skill and dedication aided immeasurably the work of the Academy this past year. From another perspective, calculated at a conservative average of \$10.75 an hour, that works out to more than \$680,000 – a collective contribution of over two-thirds of a million dollars!

More than half of those 63,300 volunteer hours were contributed by Docents, who presented School Tours, Adult and Family Tours, Outreach Visits, Cart Presentations on the exhibit floor and numerous other helpful activities. The next largest number of hours were those that benefited the

facilitating the enjoyment of visitors to the many traveling exhibitions presented by the Academy each year. Clerical volunteers helped throughout the Academy. Folding, stuffing, labeling, and sorting can be pretty dull; but when

done with a chatty work party, the time flies by. Filing is a task that every department needs help with, and that can include books, 35 mm. slides, photographs and specimens, as well as the usual paper variety.

The Academy feels privileged to enjoy the loyalty and dedication of every one of its 1196 volunteers. And so, to each of you, high fives and standing "O's" all around! Without your help, we couldn't have accomplished what we have, be what we are today, or what we hope to be tomorrow. Please accept our sincere gratitude and appreciation, not just during "your week," but throughout the entire year.

To those of you who have been thinking about becoming a volunteer, but just aren't sure what you could do, please contact the Volunteer Office, (415) 750-7154. Odds are, whatever your skills or training may be, there is a task at the Academy waiting to be done. Some of the specific areas we're needing help with are the Early Childhood Center and the Information Desk (especially on weekends). The Academy's big summer show on the topic of human origins, *Missing Links—Alive!*, will present many volunteer opportunities, both before and during the run of the exhibition (May 29-Sept. 6). And the Education Office is seeking the services of a retired Executive Secretary to assist with revising the filing system.

How's that for variety? Please call soon. Your help will be welcome.

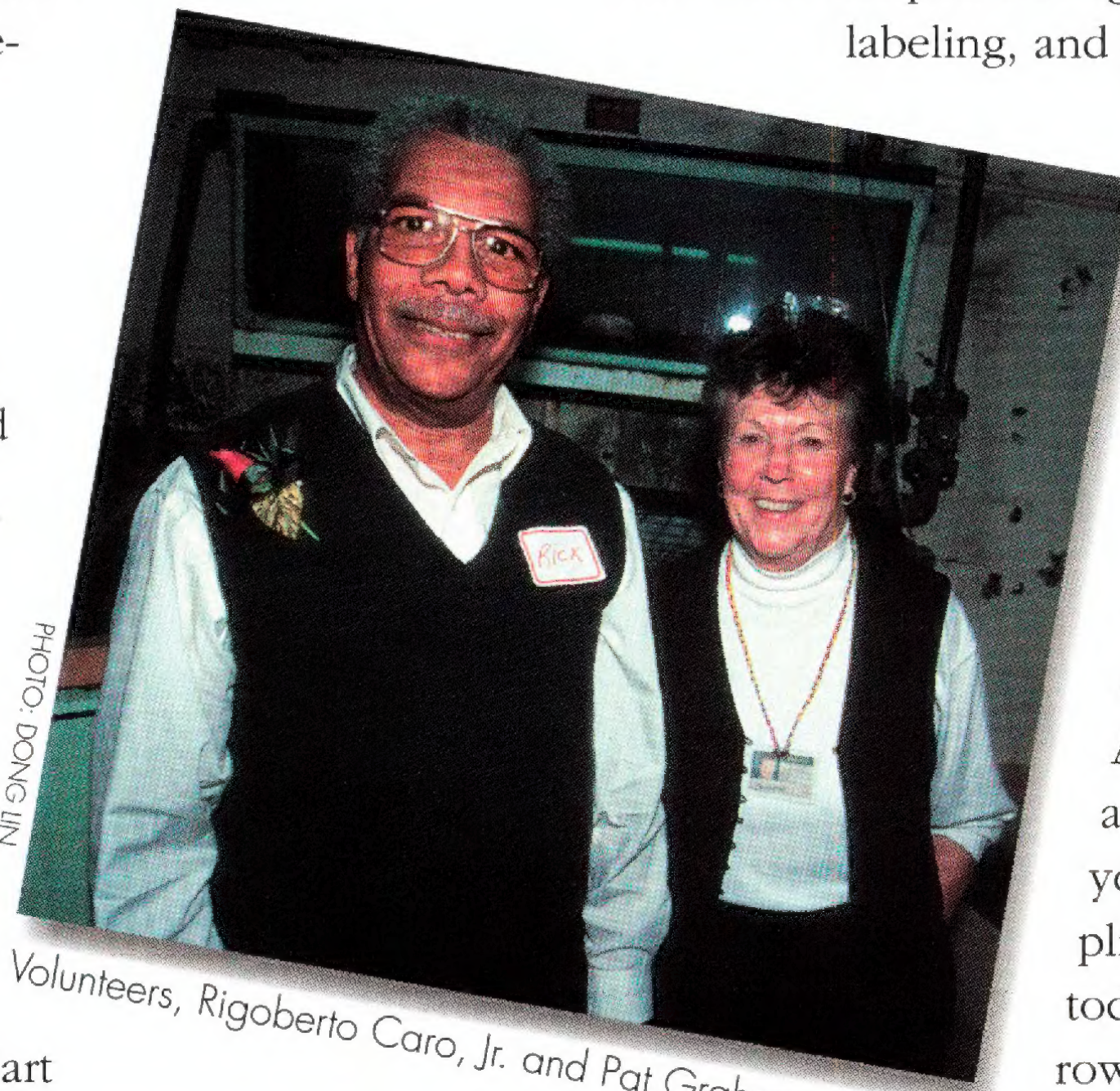


PHOTO: DONG LIN

Volunteers, Rigoberto Caro, Jr. and Pat Graham



PHOTO: DONG LIN

Volunteer, Barbara Webber

Research Departments, where 173 volunteers tallied 10,626 hours doing the tedious, time-consuming tasks that the curatorial staff would otherwise have to do themselves (or wouldn't get done at all), such as tying identifying tags on specimens, doing scientific illustrations for research papers, hours and hours of data entry and the common task of every department that keeps wet specimens, refilling alcohol jars.

The main floor attracted its share of volunteers, in addition to the Docents. Over 10,000 hours were the result of the combined efforts of the several hundred volunteers working in the Biodiversity Resource Center, at the Information Desk and the Tidepool, and by the continuing group of volunteers who like the variety of



PHOTO: DONG LIN

Former volunteer and current member of the Botany Department staff, Linda Liebelt



## Putting the Pieces Together:

### How to Solve the Puzzle of Charitable Estate Planning

Have you ever wondered if it was possible for you to support the Academy and other favorite charitable organizations while still providing security for yourself and your loved ones?

In response to many requests, a special Academy seminar will explore and explain the benefits and options of incorporating charitable interests into your estate plans.

**Please join us for coffee and pastries at 9:00 a.m. on Wednesday, April 28, 1999** and get answers to questions like:

- How can you reduce your tax bills while increasing your income?
- What are the steps to take to establish an effective legacy plan?
- How can you identify the best advisors to accomplish your goals?
- Where can you research worthy charities?
- How do you want to be remembered?

A panel of three uniquely qualified speakers will lead our program: Theodore Hellman, J.D., author and frequent speaker on estate planning issues, is a graduate of Yale University and received his law degree at the University of Virginia Law School. Ted is a founding member of the Academy's planned gift professional advisory group.

Lois Lippincott, a philanthropist who is an Academy docent (Class of 1971), is a graduate of Stanford University. A member of the Academy Council, Lois is also an Eastwood Associate and a member of the Academy's planned gift committee.

Carol Pollock, a well known planned giving consultant and a founder of the Northern California Planned Gift Council, is a graduate of Mills College. Carol has worked with the Academy as a consultant to the planned giving program since 1989. She has helped many individuals to reach their charitable objectives.

Our seminar is designed to provide ample time for questions and answers and discussion among the participants and speakers. Attendance is limited, so please respond early, by April 17th. The fee for this seminar is \$5.00 (free for Eastwood Associates). Please telephone (415) 750-7216 for seminar information, or use the reply coupon on page 14 of this newsletter.

April 28, (Wednesday) 9:00 am

## 1999 Challenge Grant Hits Its Mark

The Academy is pleased to announce the completion of the 1999 Challenge Grant. An overwhelming success, the Grant raised \$264,380 in additional funding for the Academy's Annual Fund.

The Annual Fund provides a critical source of general operating support for the Academy, and helps sustain programs in Education, the Natural History Museum, the Planetarium, the Aquarium and Research.

Six long-standing Academy donors sponsored the Grant, which matched, dollar for dollar, the increased portion of renewed contributions *and* all new unrestricted gifts to the Academy prior to July 1, 1999. Our grateful thanks to Trustees Bill Wilson, Bill Kimball, and Lew Coleman, the Compton Foundation, the Ishiyama Foundation, and Bank of America Foundation for championing this special funding opportunity for the institution.

Thank you to all Academy members who participated in the Challenge. Your generosity and commitment to the Academy's research and education mission are more than appreciated by everyone here at the museum.

## Millennium Madness

On Thursday, May 20, the Academy will once again be dressed in its party finery for the 14th Annual Academy Ball, *Millennium Madness*. Seven hundred guests will enjoy



PHOTO: DONG LIN

last year's Birds of a Feather chairs, Christy and Jay Hagenbuch.

cocktails, champagne and hors d'oeuvres by Dan McCall, Yank Sing Deem Sum and Swan Oyster Depot. A seated dinner by McCalls will be served in African Hall, Wild California, Earth and Space Hall and the Steinhart Aquarium, followed by a sumptuous dessert buffet and dancing in the tented Whale Courtyard.

This year's Dinner Chairs are Paul and Marcia

Wythes. Bank of America is the Corporate Sponsor and Michael J. Murray is the Corporate Chair.

Tickets for this year's event begin at \$300 per person. Tables of 10 are available at \$10,000, \$7,500 and \$5,000. For further information please call Deidre Kernan or Anne Rianda in the Special Events Office at (415) 750-7222. You may also use the order form on page 14 for tickets.



## April

## Natural History of Madagascar

with Frank Almeda, Curator of Botany at the Academy

Join us for a fascinating look at a natural paradise praised by naturalists everywhere. The island of Madagascar separated from Africa more than 150 million years ago. The world's fourth largest island possesses a rugged mountainous backbone, deserts, rivers, lakes, caves, and a vast array of biomes including rainforests along the east coast, dry forests in the west, and "spiny" desert in the southwest.

The environmental diversity of Madagascar has also promoted the evolution of plants and animals that occur nowhere else on our planet.

Through slides we will explore several of Madagascar's ecosystems and take a look at some of its unique plant and animal groups. We will learn about the factors that have contributed to environmental degradation and extinction, and experience a realistic outlook for a conservation strategy coupled with sustainable development.



Dr. Frank Almeda

April 14 (Wednesday) 2 pm & 7:30 pm, Morrison Auditorium

## May

Academy, SF Zoo, & Exploratorium  
Honor Member Mothers

Academy member mothers and their member families will have free admission to the Exploratorium and SF Zoo by showing their active Academy membership card. In turn, Exploratorium and SF Zoo member mothers may come to the Academy by presenting their Exploratorium or SF Zoo member card at the Membership Booth at the main entrance. This offer is valid for Mother's Day only.

May 9, Mother's Day (Sunday)

Open House for Members of the  
California Academy of Sciences

You're invited to be our guests on this special evening just for members. You'll be able to tour behind-the-scenes in all the research departments and in the Aquarium.

This is a wonderful opportunity, for you our members, to explore and discover the ultimate natural science adventure!



PHOTO: DONG LIN

Entomology's Roberta Brett

When you go behind-the-scenes prepare to be amazed at every department as you take this intimate journey through the world of natural science and anthropology.

It's your chance to meet the scientists and staff, view collections in our eight research departments and the Aquarium and ask questions.

It's the Academy's way of saying "thank you" for your interest and incredible support throughout the year.

May 12, (Wednesday) 6 to 9 pm

## Upcoming Members' Lectures

June 9th – Three Fearful Days -San Francisco Memoirs of the 1906 Earthquake & Fire  
with Malcolm E. Barker, author and reporter.  
Book signing to follow lecture.

July 14th – Classical Chinese Gardens  
with Nancy Pickford, travel consultant and lecturer.

August 11th – The Skin and Bones of Human Evolution  
with Nina Jablonski  
Curator of Anthropology at the Academy

**Please Note: Members Meetings are provided as a benefit of membership and are FREE to all Academy members. Please present your membership card at the Academy's entrance and again at the auditorium. Guests of members are \$10 each.**

## On Our Cover

Hopi Polychrome jar, ca. 1930's

Photo: Nampeyo and Fannie Polacca Nampeyo



## New and Renewing Donor Circle Members

November and December 1998: \$125 to \$999

Donor Circle membership contributions support the Academy and significantly advance our work in research and education. It is with great pleasure that we gratefully acknowledge these gifts.

Ms. Lile Adams  
Mr. and Mrs. Fred Anderson  
Mr. Michael Anthenien  
Mr. Ron Appleton &  
Ms. Susan Tiffany  
Mr. and Mrs. J. William Aubry  
Mrs. A. V. Augustin  
Ms. Jennifer Ayres &  
Mr. Harry K. Plant  
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Ms. Ann Beccia  
Mr. and Mrs. Joachim Bechtle  
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Mr. Jack Calvert  
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Ms. Erna Ordeman  
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Dr. Gail Wagner  
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Dr. Marvalee Wake &  
Dr. David Wake  
Mr. Warren Weisenburg  
Mr. and Ms. Richard Welsh  
Ms. Susan A. West  
Ms. Dana R. Woldow &  
Mr. Mark P. Schreiber  
Mr. and Mrs. Timothy C. Won  
Mr. and Mrs. David R. Wood  
Mr. and Mrs. Frank Woods  
Mr. and Mrs. Steve Zissis



## The Wildlife Talks

*Sponsored by Wildlife Conservation Society and  
California Academy of Sciences.*

The Wildlife Talks feature research scientists from Wildlife Conservation Society and California Academy of Sciences who are making significant contributions to national and international scientific research. These presentations focus on the intersection between science and conservation. Highlighting their most current research, the speakers demonstrate how the collection of scientific data in the field contributes to resource management decisions worldwide. All programs begin at 7:30 pm in the Morrison Auditorium, California Academy of Sciences. A cocktail reception from 6:30 – 7:30 pm precedes each presentation.

### Basic Faunal Inventories: Prerequisites for Conservation in Madagascar

David Kavanaugh



PHOTO: DONG LIN

Long-horned beetle

Madagascar is a scientist's dream, with nearly eighty percent of the plants and ninety percent of the insects endemic to the island. Dave Kavanaugh, Curator of Entomology at the California Academy of Sciences, details the Academy's recent research expedition to Ranomafana National Park in Madagascar to inventory the park's arthropods: spiders and insects. Long days and nights of scratching trees, sifting through detritus on the forest floor, and turning over rocks proved valuable, as preliminary estimates indicate that the scientists have collected up to 150 new spider species and about twenty previously unknown carabid beetles. Learn about the importance of one tree in particular, the *Pandanus*, useful to the local Malagasy for building roofs and floor mats, which also houses a whole community of arthropods found nowhere else.

April 22 (Thursday)

## Saving Wild Animals: Veterinary Medicine in the Field

William Karesh

Dr. William Karesh heads the Wildlife Conservation Society's field veterinary program, traveling around the world to aid conservation biologists in their research. Join Karesh on a behind-the-scenes look at wildlife medicine as he travels throughout Africa, Asia, and South America.

June 10 (Thursday)

### Wildlife Talks Pricing

#### Lectures Only:

Members: \$6/Non-Members: \$10

#### Lectures and Receptions

Members: \$36/Non-Members: \$45

## Adult Education

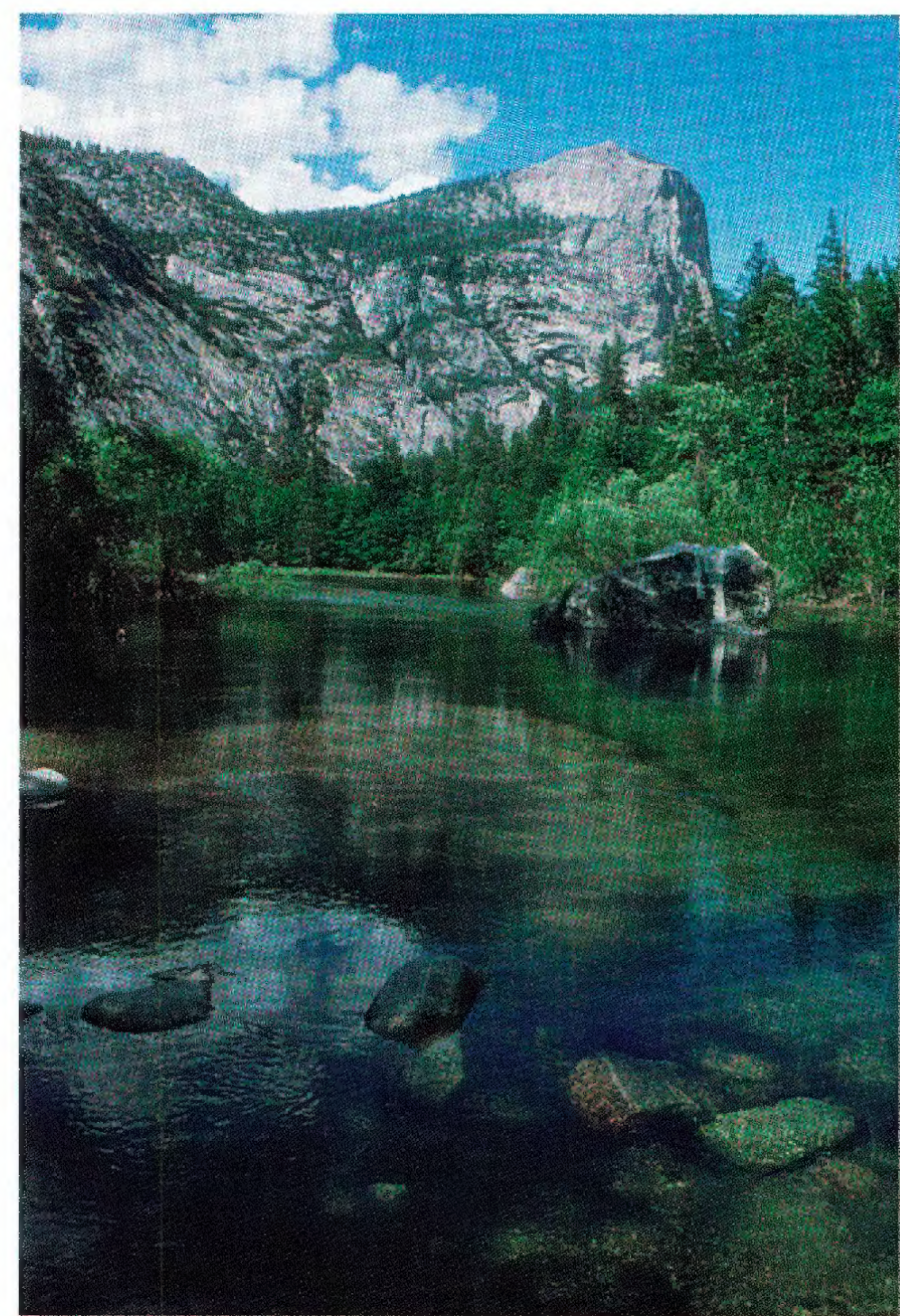
### Sierra Nevada at the Crossroads: Integrating Science and Policy

On April 10, the California Academy of Sciences will host a public program presented by The Wilderness Society on the future of the ten national forests in California's Sierra Nevada mountain range. The Society will review the key findings and recommendations of the Sierra Nevada Ecosystem Project (SNEP), a three year, \$6.3 million independent scientific assessment of the Sierra Nevada. The program will include a display of computer based maps developed by SNEP, including the first and only maps of the remaining old growth forest in the region.

With a new ten-year plan expected by this summer, this informal presentation is particularly timely. All interested in the fate of the public ancient forests of the Sierra Nevada should attend.

The presentation is free of charge and will be held in the Academy's Trustee Room beginning at 9:30 am. For more information call The Wilderness Society, office at 415-561-6641.

April 10 (Saturday),  
9:30 am



Merced River



## Halos, Rainbows, and Sundogs

The visual phenomena produced by moisture in the air can be nothing less than spectacular. This short course uses computer technology and lab experiments to demonstrate how the atmospheric optics of rainbows, sundogs, and halos are formed.

Darryl Stanford  
April 26, May 3, 10 (3 Mondays)  
7:00 – 9:00 pm  
\$35 members/\$40 non-members

## Creeping Up the Hayward Fault

Field Trip

In 1836 and 1868, two earthquakes located on the Hayward Fault violently shook the East Bay. Unfortunately, recent research indicates that history is likely to repeat itself. Spend the day exploring and learning more about the Hayward Fault as we wind our way through the East Bay. A short introduction focusing on basic earthquake principles starts the day, followed by a visit to the UC Berkeley Seismograph Station to see how earthquake activity is monitored. Finally, stop at points along this urban fault to observe varied geographical features and look for evidence of active fault creep.

Ivan Wong  
April 24 (Saturday)  
9:00 am – 5:00 pm  
\$35 members/\$40 non-members  
Includes transportation and cold drinks.

## Cloud Chasers: Microclimates of Tennessee Valley

Field Trip

On any given day in California it can be raining in Marin County, sunny in San Jose, foggy in San Francisco, and snowing in Truckee. The variability in weather is due to the diversity of landscapes all around us. Even very slight changes in a small area can have profound effects on the weather and wildlife. A boulder found in the Sierra Nevada, for example, might have red Mountain Heather growing on its sunny side and mosses or Mountain Sorrel on its moist shady side. Explore the microhabitats and microclimates found in Tennessee Valley on this morning adventure. Learn which animals and plants can survive and thrive on the dry south-facing slopes but couldn't survive on the moister north-facing slopes minutes away. Look for examples of microhabitats and microclimates in open fields, near trickling streams, and on the sandy shores of the Pacific Ocean. Open to families with children eight to twelve years old.

Chris Giorni  
May 15 (Saturday)  
9:00 am – 1:00 pm  
\$20 adults/\$15 children, members  
\$25 adults/\$20 children, non-members

## A History of Early Astronomy and Cosmology

Since the early times, people have looked skyward with wonder and awe, pondering their place in the cosmos. Many of the earliest astronomers, like Aristotle and Ptolemy, contended that Earth was the center of the universe, a theory that was accepted for hundreds of years. Look at some of the early ideas about stars, planets, and the cosmos in this historical overview. Examine the breakthrough ideas of Copernicus, Kepler, and Galileo, and discover that even revolutionary scientific ideas had their roots in earlier, sometimes unscientific concepts.

Benjamin Olshin  
May 18, 25, June 1 (3 Tuesdays)  
7:00 – 9:00 pm  
\$35 members/\$40 non-members

## A Parade of Mollusks

Lab and Lecture



PHOTO: BUFF AND GERRY CORSI

The Rock Scallop

The group of animals known as mollusks seldom goes unnoticed at the water's edge. The often showy shells of clams, oysters, scallops, and other bivalves quickly attract attention from most beach-goers. But this diverse group of animals also includes land and sea snails, octopi and squid, and many other incredible species. Spend the day

closely observing selected mollusks to understand how they have adapted to their environments and survived in seemingly inhospitable habitats. In hands-on laboratory exercises, observe how a clam feeds and watch how a banana slug moves. A slide-illustrated lecture introduces you to the geometrical form and growth and the evolutionary change in symmetry, feeding, and locomotion in different classes of mollusks. Specimens from Academy collections and the Steinhart Aquarium help demonstrate the amazing diversity of mollusks.

Chuck Stasek  
May 22 (Saturday)  
9:30 am – 4:30 pm  
\$55 members/\$65 non-members



## Benjamin Dean Lectures

## Reports from Academy Fellows

The Spring 1999 Benjamin Dean Lecture Series continues its reports from Fellows of the California Academy of Sciences. The Fellows are the governing body of eminent scientists and trustees whose predecessors founded the institution 146 years ago. These individuals represent the full range of disciplines within the natural sciences, and are nominated by their colleagues and appointed by the Board of Trustees based on recognition of their contribution to the growth of scientific knowledge. The Dean Lecture Series is pleased to present Fellows actively doing research in the field of astronomy.

### Beyond the Planets: Ventures into the Outermost Solar System

by Dr. Dale Cruikshank from NASA-Ames Research Center.

As a Space Scientist in the Astrophysics Branch at NASA Ames, Dr. Cruikshank is exploring the solar system with



Dr. Dale Cruikshank

ground-based telescopes, on the Space Infrared Telescope Facility (SIRTF) and through space craft as the Voyager, the Phobos and Cassini missions. He will present recent discoveries showing that our solar system is more extensive than previously thought.

New observations extend our solar neighborhood halfway to the nearest star. Since 1992 nearly a hundred objects have been found

beyond the planet Neptune! Icy Pluto is now recognized as a member of a very large family of objects that form the Kuiper Disk. These icy dwarf objects are the remnants of the solid materials from which the planets formed, and they constitute one of the two principal sources of the comets.

Armed with the world's largest telescope, astronomers are now learning the chemical makeup of these distant worlds, and are tracing their origins to the ice and dust of the interstellar cloud from which the Sun and all the planets formed. The icy chunks in the Kuiper Disk appear to be the most primitive bodies in the solar system. Dr. Cruikshank will discuss a space mission to Pluto and the Kuiper Disk objects that NASA is planning as a component of its Origins Program.

April 13, (Tuesday)

### Supernovae Blowing Superbubbles in the Interstellar Medium

by Dr. Carl Heiles, U.C. Berkeley.

Dr. Heiles' distinguished career has focused on the physics and interactions of gases and stars in the interstellar and

intergalactic media. New stars are constantly forming out of the interstellar gas, and observations show they tend to form in clusters. Areas of stellar formation, such as the Orion Nebula, show glowing gas heated by clusters of massive, hot stars.

Massive stars are special. They burn their nuclear fuel profligately as if there were no tomorrow. Upon depleting their resources, they end their days in spectacular explosions: supernovae. Such explosions affect their surroundings, much like a nuclear bomb blast affects the Earth's atmosphere, creating a powerful blast wave which sweeps out and heats large bubbles in the interstellar medium.

Since the members of these clusters of massive stars are all formed at roughly the same time, they have comparable lifetimes. It is like successive nuclear explosions on Earth, recurring at an interval of a minute or so. These multiple blasts sculpt the interstellar medium into large holes filled with very hot, rarefied gas surrounded by the swept-up walls of compressed, cool gas. Many are seen in the Milky Way and they sometimes appear as huge plumes in other galaxies.

Dr. Heiles will present observations showing that our own solar system is currently exposed to one of these walls, which appears as a rapidly-moving wind of interstellar gas. The compressed, cool gas sometimes creates conditions favorable for continued star formation.

May 11, (Tuesday)

**Morrison Planetarium, Tuesdays at 7:30 pm, \$3.00 each.**  
**Information Hotline: 415-750-7141**

### Conversations at the Herbst

City Arts & Lectures, Inc. presents  
**CALIFORNIA ACADEMY OF SCIENCES**  
**Conversations at the Herbst Theatre 1999**

All Programs at 8:00 pm

Monday  
May 3

**Peter Matthiessen**

Writer, Explorer

*The Snow Leopard, Bone by Bone*

In conversation with Samuel M. Taylor

Monday  
May 17

**Donald & Lillian Stokes**

Nature Authors, Bird Experts

*Stokes Field Guide to Birds*

"Birding: A Vision for the Future"

slide presentation

Tuesday  
June 1

**Diane Ackerman**

Naturalist, Poet

*A Natural History of the Senses, Deep Play*

In conversation with Samuel M. Taylor

*This series is made possible, in part, by a grant from  
the Richard and Rhoda Goldman Fund &*

*To order tickets, please call City Box Office at  
(415) 392-4400.*

**California Academy of Sciences does not process  
ticket orders for these lectures.**



## Traditional Arts of the World

All programs take place at 1 pm in the Morrison Auditorium on select Saturdays. Presentations are free after general admission to the museum. For further information on these events and other Traditional Arts Programs, contact Almudena Ortiz at (415) 750-7165. The Traditional Arts Program is funded by the Paul L. and Phyllis Wattis Foundation.

### April

#### April 3 – Chinese Medicine

Doctor Daniel Jiao will speak about the principles of traditional Chinese medicine, especially acupuncture and herbal formulas.

#### April 10 – East Indian Dance

Vishal Ramani and the Shri Krupa Dance Foundation present a program of East Indian *bharatanatyam* dance, in its pure *tanjore* traditional form. The program includes *nritya* expressive dance and *nritya* pure dance style.



#### April 24 – Eid-Ul Adha Celebration

The festival of *Eid* signifies the unity of the Islamic faith. It is the “Feast of the Sacrifice,” celebrating Abraham’s willingness to sacrifice his own son in obedience to God, and is the second major feast of Islam. The Intercultural Alliance of Islamic Art and Education presents a medley of music, dance, and costumes from the Middle East.

### May

#### May 1 – North African Music

Omar Ait-Vimoun, Director of The Pacific Andalus Conservatory in San Francisco, presents a program of *Andalus* music, the classical musical tradition of the Imazighen (Berbers) of Algeria. The presentation includes singing to the accompaniment of the *amandol* string instrument, the *darbuka* drum, and the small *kuintara amandol*.



Mariachi Ortega

#### May 8 – Mariachi Music

In celebration of Mexico’s *cinco de mayo* ( May 5th), Henry Ortega and his *mariachi* ensemble play a repertoire of *boleros*, *sones*, *corridos* and *ranchera* music on trumpets, violins, *guitarron*, guitar and *vibuela*.

#### May 15 – Saami Hand-crafted Jewelry

Since the 16th century the Saami people (Lapps) of northern Sweden have been using metal thread, silver, and deer antlers to decorate clothing and fabricate jewelry. Erika Honig explains how she creates her own jewelry and the importance of reindeer in the lives of the Saami people.

#### May 22 – Puppet-Making Demonstration

Nick Barone, a member of the San Francisco Bay Area Puppeteers Guild, demonstrates the construction of different kinds of puppets — hand-puppets, moving-mouth puppets, marionettes, shadow puppets, and rod puppets. He also discusses acting, directing, and writing scripts for puppet shows and the design of theatrical sets.

#### May 29 – Japanese Sushi

Mrs. Kitachima prepares three different types of *sushi* — *kappa sushi*, *inary sushi* and *spam sushi* — and shares information on where to purchase the best products for *sushi* making.

## Public Programs

### Special Guests to Visit *Masters of the Night*

Don’t miss the rare opportunity to observe non-releasable bats up close and in person. Patricia Winters from the California Bat Conservation Society will share her knowledge gained from thirty years experience as a wildlife rehabilitator and educator. You will be treated to images displaying the incredible diversity of adaptations among bats around the world, and meet her rehabilitated bats. Her Chiropteran companions are native to this area and are powerful educators about the facts and myths surrounding this amazing mammal.

This presentation is free with Academy admission and is open to all ages. For more information, call 750-7318.

April 10, 2:30 pm (Auditorium)



## April – May Sky Show Schedule

| Sky Show | Weekday | Weekend |
|----------|---------|---------|
|----------|---------|---------|

|   |     |         |
|---|-----|---------|
| The Other Side of the Sky<br>ending date: 9/12/99 | 2pm | 2 & 2pm |
|---|-----|---------|

|                                  |  |         |
|----------------------------------|--|---------|
| Stardust<br>ending date: 6/13/99 |  | 1 & 4pm |
|----------------------------------|--|---------|

|                                   |  |     |
|-----------------------------------|--|-----|
| The Sky Tonight<br>no ending date |  | 3pm |
|-----------------------------------|--|-----|

|                                      |  |      |
|--------------------------------------|--|------|
| Neighbors in Space<br>no ending date |  | 11am |
|--------------------------------------|--|------|

Weekend schedule applies on Memorial Day, 5/31.

Tickets can be purchased one half hour before the show (box office opens at 10:30 am on weekends) at the box office once inside the Academy of Sciences (\$2.50 adults, \$1.25 seniors and children (6-17)). Members must redeem their passes for tickets at the box office prior to the show. If you have a child under 6 years old with you please ask the cashier for a "Child's Pass". For more information, please call 415-750-7141.

Many thanks to the following members who have increased their support of the Academy and its Annual Fund in the last two months:

Mrs. Dorothy Arndt  
John & Phoebe Atwater  
David & Gerri Berg  
Heike Bettenworth  
& Gary Mack  
Mr. Stewart Bolinger  
Dr. & Mrs. Frederic Bost  
Dr. David Botstein  
& Dr. Renee Fitts  
Mr. Copley Crosby  
Mr. & Mrs. Myron Christy  
Dr. & Mrs. Robert Conner  
Lenora Eagar Davis  
Mr. Conrad Diethelm  
Dr. & Ms. William Forni  
J. Michael & Sally Gallagher  
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Mr. & Mrs. J. M. Harker  
Mr. Dennis Hartzell  
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Mr. & Mrs. Shawn Hecht  
Kristin Henry &  
Nicholas Chapin  
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John & Heidi Shott  
Jim & Maureen Stillman  
Mrs. Mary Lee Strebl  
Mr. Robert Shurtz  
Mr. John Thoelecke  
Mr. & Mrs. David Wells

## Astronomy Day, 1999

Come and celebrate International Astronomy Day with the Academy's Morrison Planetarium and amateur astronomers from across the Bay Area. In addition to shows in Morrison Planetarium, the Academy will present Astronomy-related activities, displays, and outdoor observing (weather permitting).

Join us and find out "what's up!"

May 22 (Saturday)  
10 am to 4 pm



Astronomy Day, 1998

### Director's Message, cont. from pg 2

Our institutional planning continues to move forward. I have led about 20 focus groups of staff, volunteers, and members who have been wonderful in sharing their time, ideas, and concerns about the Academy and its future. For those members who have not been able to attend one of the past focus groups, listed on page 2 are five additional times to participate. For those of you who would like the chance to discuss with the Executive Director your ideas about what we do right, what we could do better, and what we should be doing, this is your chance!

Finally, on behalf of the Academy, I want to extend my thanks to those who participated in our \$120,000 Challenge Grant. Your generosity made this Challenge an overwhelming success for the Annual Fund, with 664 new or increased gifts totaling \$144,380. This is great news for the Academy.



# Summer is just around the corner!

Get ready for your children to dive into summer fun at the Junior Academy's Camp Academy, offered to students age 6-15 years. Focussing on biodiversity science and conservation biology, Camp Academy provides students with a close-up look at the natural world and engages them in a variety of field-based science activities both in the Academy's immediate surroundings in Golden Gate Park as well as in Sonoma County and the Sierra Nevada. Details about these programs as well as registration information will be available in our summer course catalog, due out by the end of April.

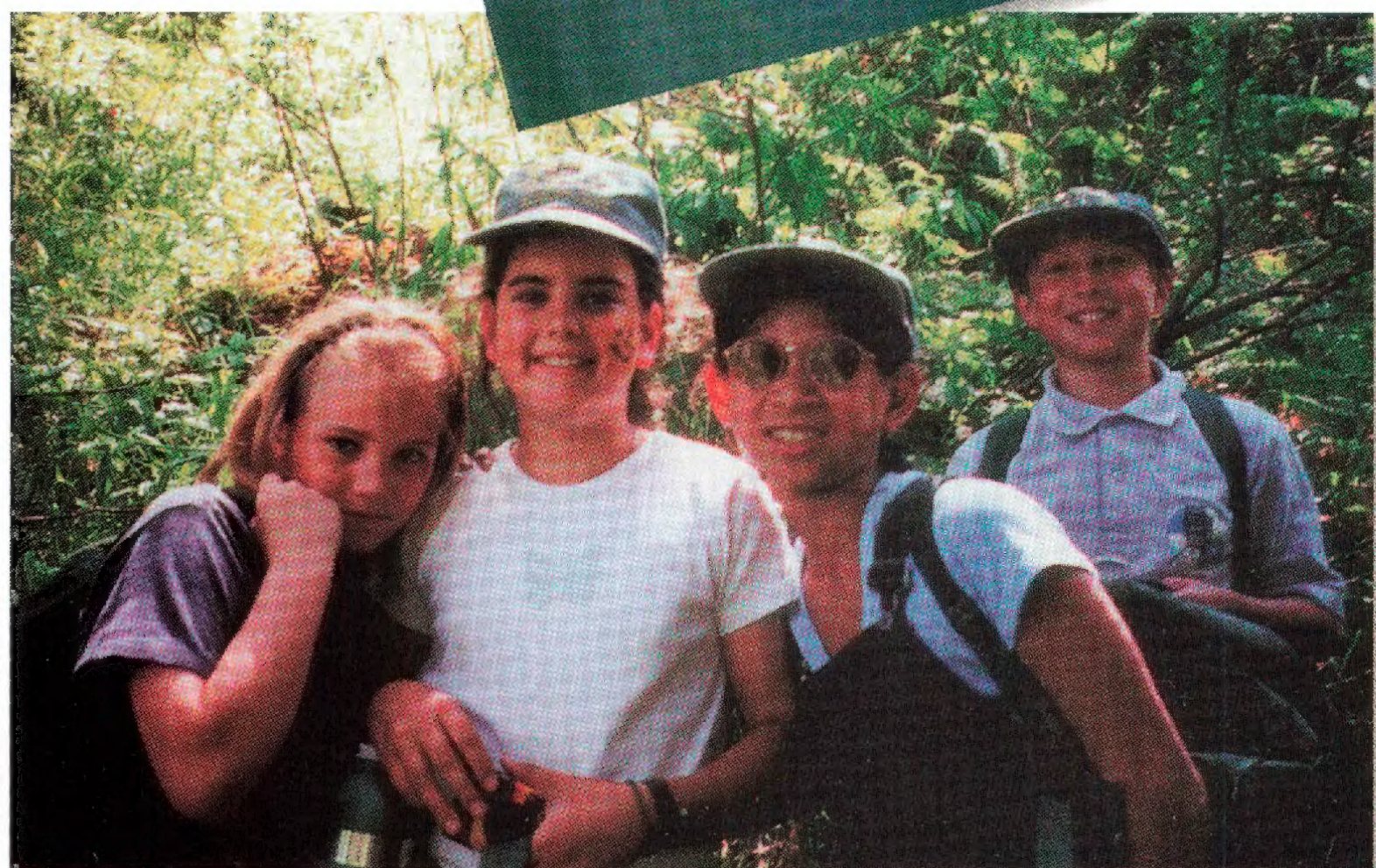
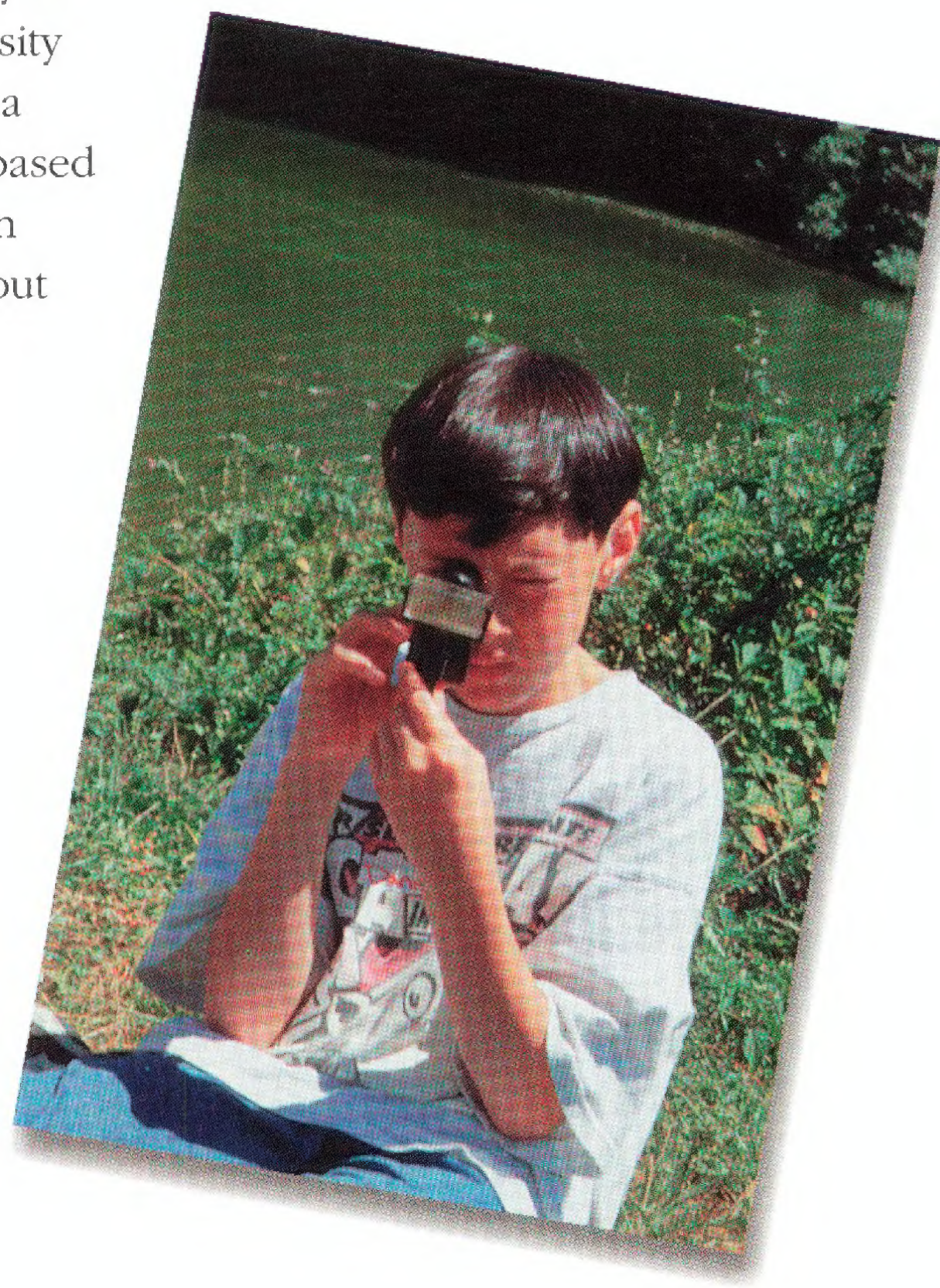
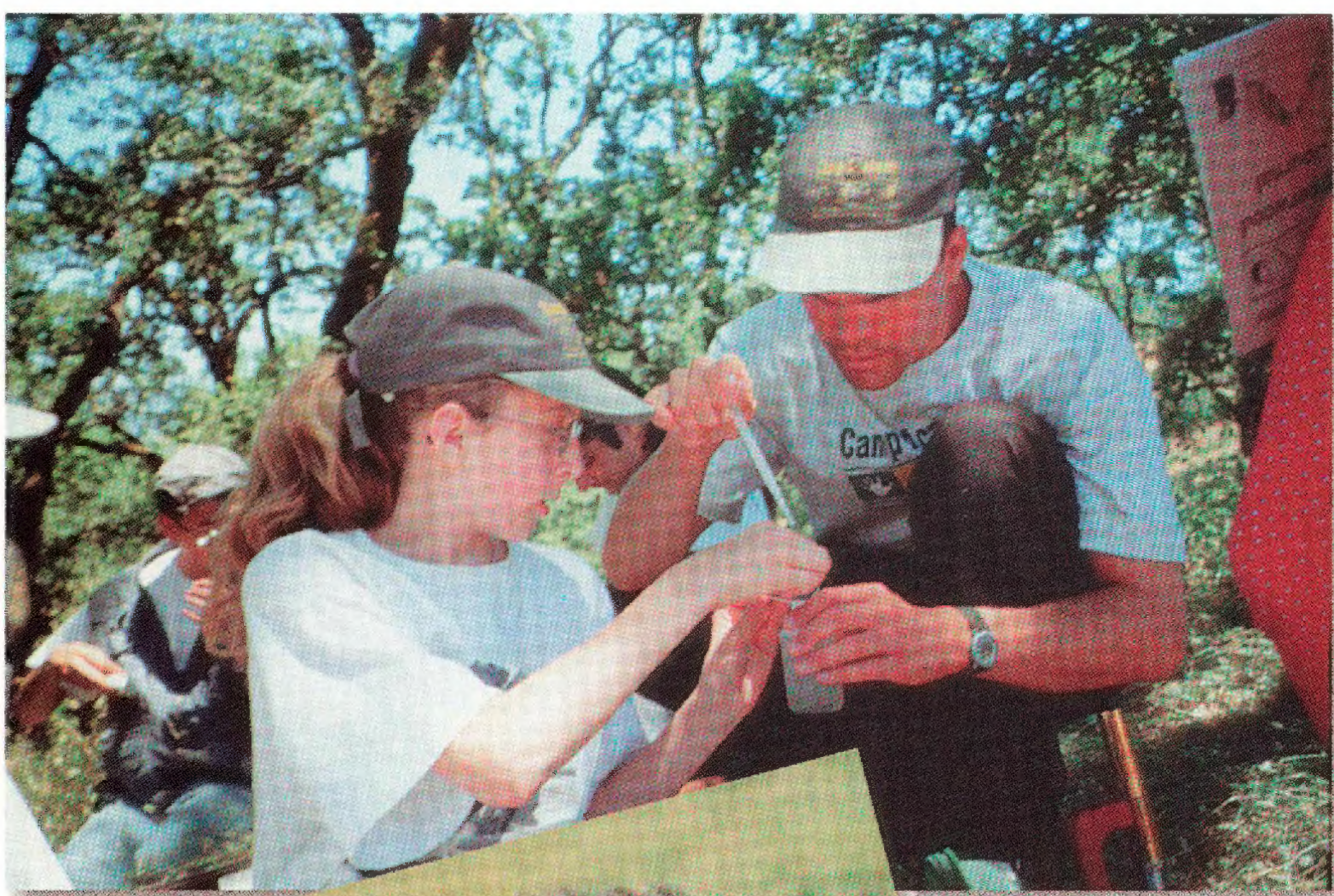


PHOTO: DONG LIN

## Junior Explorers

July and August

A half-day, week-long day camp for students aged 6-8 years.

## Golden Gate Park

July and August

An all-day week-long day camp for students aged 9-12 years.

## Pepperwood

June

A three-day, two-night environmental education residential camp at the Academy's sprawling 3,117-acre nature preserve in Sonoma County for students aged 10-12 years.

## Bodega Bay

June

A four-day, three-night marine biology residential camp at UC Davis' Bodega Marine Lab in Bodega Bay for students aged 11-14 years.

## Sierra Ecology Backpacking

July

A five-day backpacking trip to the Southern Lake Tahoe region of the Sierra Nevada for students aged 12-15 years.



## Order Form

**YOUR NAME:** \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Member # \_\_\_\_\_

### ADULT EDUCATION

|  | Quantity/Members | Qty/Non-members | Total   |
|--|------------------|-----------------|---------|
| Creeping Up the Hayward Fault<br>April 24              | _____ X\$35      | _____ X\$40     | = _____ |
| Halos, Rainbows, and Sundogs<br>April 26, May 3, 10    | _____ X\$35      | _____ X\$40     | = _____ |
| Cloud Chasers/Tennessee Valley<br>May 15               |                  |                 |         |
| Adults   | _____ X\$20      | _____ X\$25     | = _____ |
| Children   | _____ X\$15      | _____ X\$20     | = _____ |
| History of Early Astron./Cosmol.<br>May 18, 25, June 1 | _____ X\$35      | _____ X\$40     | = _____ |
| A Parade of Mollusks<br>May 22                         | _____ X\$55      | _____ X\$65     | = _____ |

### LECTURES

|   | Quantity/Members | Qty/Non-members | Total   |
|---|------------------|-----------------|---------|
| Wildlife Talks/Basic Faunal Inventories |                  |                 |         |
| Lecture                                 | _____ X\$6       | _____ X\$10     | = _____ |
| Lecture and Reception                   | _____ X\$36      | _____ X\$45     | = _____ |
| Saving Wild Animals                     |                  |                 |         |
| Lecture                                 | _____ X\$6       | _____ X\$10     | = _____ |
| Lecture and Reception                   | _____ X\$36      | _____ X\$45     | = _____ |

### B. DEAN LECTURES

|                                 | Quantity   | Total   |
|---------------------------------|------------|---------|
| Beyond the Planets              | _____ X\$3 | = _____ |
| Supernovae Blowing Superbubbles | _____ X\$3 | = _____ |

### JUNIOR ACADEMY

Please call (415) 750-7100 for class catalog.

### ACADEMY BALL MILLENNIUM MADNESS

|                    |               |         |
|--------------------|---------------|---------|
| Individual Tickets | _____ X\$300  | = _____ |
| \$2500 Table       | _____ X\$2500 | = _____ |
| \$5000 Table       | _____ X\$5000 | = _____ |
| \$7500 Table       | _____ X\$7500 | = _____ |

### ESTATE PLANNING SEMINAR

|                              |            |         |
|------------------------------|------------|---------|
| Free for Eastwood Associates | _____ x\$5 | = _____ |
|------------------------------|------------|---------|

### DONATIONS

- ☐ I would like to support the Academy of Sciences with a donation. \$ \_\_\_\_\_
- ☐ Please send me information about effective gift and personal planning in 1999.
- ☐ Please send me information about life income gifts and bequests to the Academy
- ☐ I have already provided for the Academy in my will or other estate plans.

### GIFT MEMBERSHIP FORM

\$60 Family or Grandparent

I wish to give a gift membership to: \_\_\_\_\_

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State \_\_\_\_\_ Zip \_\_\_\_\_ Phone ( ) \_\_\_\_\_

Payment enclosed: \_\_\_\_\_

**TOTAL PAYMENT ENCLOSED** \$ \_\_\_\_\_ ☐ Check (made payable to CAS)

☐ Visa ☐ Mastercard ☐ American Express (\$10 minimum on credit card orders)

Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Daytime Phone \_\_\_\_\_

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Include a self-addressed, stamped envelope for each series to which you subscribe.  
No refunds/exchanges.

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coming soon to clothing near you!**



The California Academy of Sciences logo is now available on merchandise in The Academy Store. Come select from CAS t-shirts, hats, patches, keychains, book bags, and postcards.

Perk up your spring wardrobe with an Academy Shirt.



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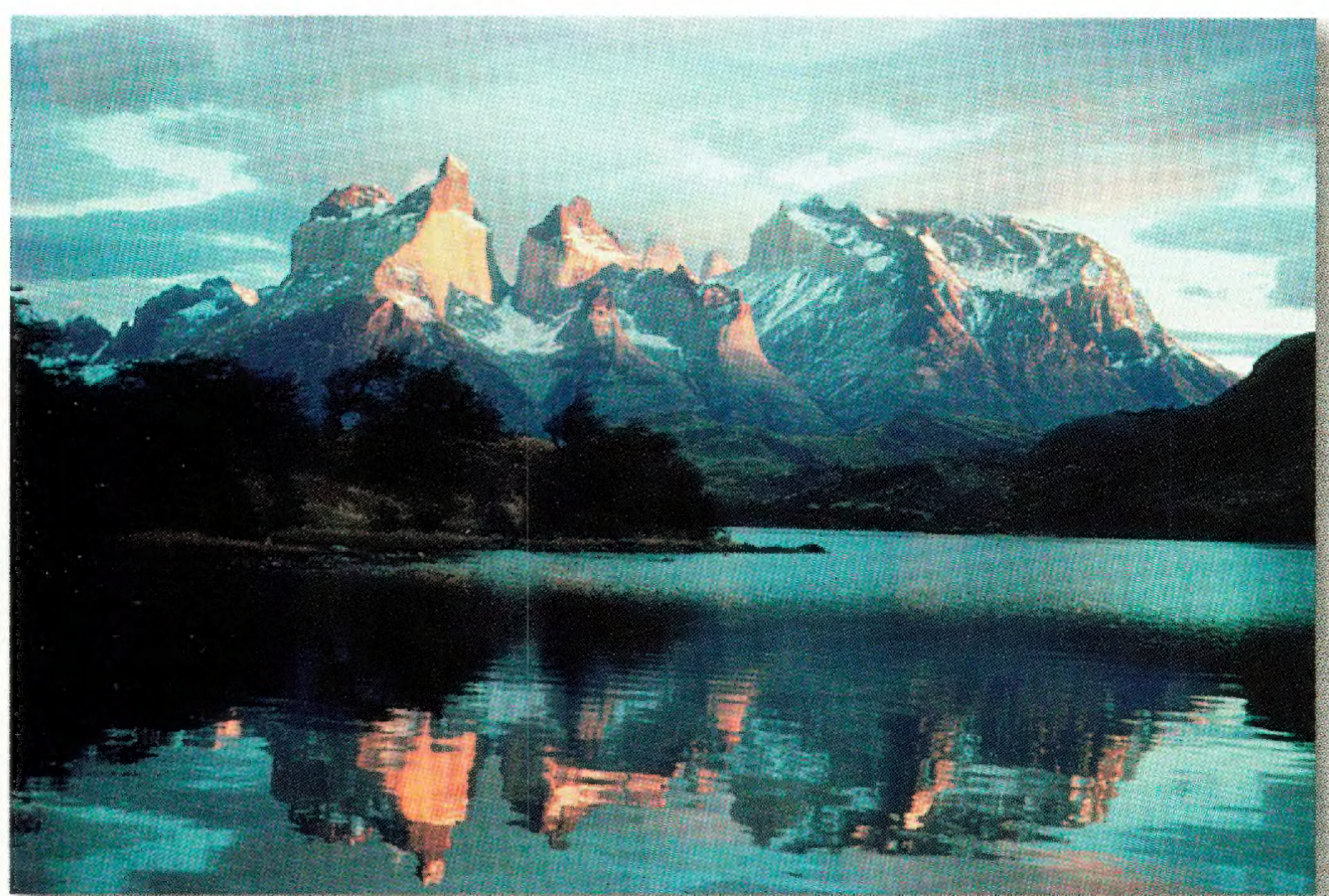
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## Land Exploration in Patagonia

October 30-November 12, 1999  
with Frank Almeda

PHOTO: G. C. WILLIAMS



Torres del Paines, N.P. Chile

Join Academy leader Dr. Frank Almeda in this customized natural history exploration of Patagonia.

Imagine yourself in a land of sweeping plains, towering granite peaks, glistening blue glaciers, snow-capped volcanoes, and azure lakes. Patagonia is a world of unparalleled beauty plus a fascinating blend of European and Latin cultures.

Begin in bustling Buenos Aires, then fly to the northern boundary of Argentinean Patagonia. Spend a full day at Peninsula Valdes, home to the greatest concentration of wildlife in Argentina. Cross the expansive Patagonian steppes toward the Andes and spend a full day marveling at one of the world's most astounding glaciers, *Perito Moreno*.

PHOTO: G. C. WILLIAMS



Moreno Glacier, Patagonia

Cross the Andes at a low elevation into Chilean Patagonia and spend three days near the soaring granite towers of *Torres del Paine*. The birdlife is varied and includes ducks, geese, flamingos, and black-necked swans; in addition, November heralds the arrival of migratory birds. End the trip in cosmopolitan Santiago.

Cost: \$4,590 per person (based on double occupancy) plus airfare

## The Other Africa: A Tenting Safari in Kenya and Tanzania

December 19, 1999 - January 2, 2000  
with Bob and Gail Drewes

Spend the holiday season with Bob and Gail Drewes, curly-crested helmet shrikes, giant forest hogs and the advent of a new millennium. See 400,000 wildebeest on a safari of a bygone era, Hemingway-style where the gracious camp staff attend to all your needs.

Alternate between remote lodges and exclusive tented camps miles away from other travelers, in Kenya's forgotten

PHOTO: ROBERT DREWES



Ngorongoro Crater, Tanzania

Meru National Park, in Tanzania's Lake Manyara National park, Ngorongoro Crater and Serengeti National Park during the Great Migration.

Travel by chartered plane and in comfortable Landcruisers with a window seat and a game-viewing roof hatch for every traveler. This trip, exclusive to the Academy, offers a better wildlife experience than most safaris by positioning the tents away from tourist concentrations and close to wildlife.

This is a land of great beauty, where landscapes are spectacular and the diversity of animal and plant life abounds. An East African safari is a must for any avid traveler, and this is the best possible safari.

Cost: \$8,345 per person (based on double occupancy) + airfare

PHOTO: N. BURNETT



Samburu Dancing



## April

### 3 Saturday

Chinese Medicine  
1 pm (Trad. Arts, p. 11)

### 10 Saturday

Seirra Nevada at the  
Crossroads  
9:30 am (Trustees Room, p. 8)

Masters of the Night Special  
Guest  
2:30 pm (Auditorium, p. 11)

East Indian Dance  
1 pm (Trad. Arts, p. 11)

### 13 Tuesday

Beyond the Planets  
7:30 pm (B. Dean, p. 10)

### 14 Wednesday

Natural History of  
Madagascar  
2 & 7:30 pm  
(Members Meeting, p. 6)

### 17 Saturday

The Elkus Collection opens

### 22 Thursday

Basic Faunal Inventories  
Lec. 6:30, Rec. 7:30  
(Wildlife Talks, p. 8)

### 24 Saturday

Creeping Up the Hayward  
Fault  
9:00 am to 5:00 pm  
(Adult Ed., p. 9)

Eid-UI Adha Celebration  
1 pm (Trad. Arts, p. 11)

### 26 Monday

Halos, Rainbos, and Sundogs  
7-9 pm (Adult Ed., p. 9)

## 28 Wednesday

Estate Planning Seminar  
9 am (Trustees Room, p. 5)

## May

### 1 Saturday

North African Music  
1 pm (Trad. Arts, p. 11)

### 3 Monday

Halos, Rainbos, and Sundogs  
7-9 pm (Adult Ed., p. 9)

Peter Matthiessen  
lecture (p. 10)

### 8 Saturday

Mariachi Music  
1 pm (Trad. Arts, p. 11)

### 9 Sunday

Mother's Day Special (p. 6)

### 10 Monday

Halos, Rainbos, and Sundogs  
7-9 pm (Adult Ed., p. 9)

### 11 Tuesday

Supernovae Blowing  
Superbubbles  
7:30 pm (B. Dean, p. 10)

### 12 Wednesday

Open House for Members  
6-9 pm

### 13 Thursday

Member Focus Group  
1-3 pm (Trustees Room, p. 2)

### 15 Saturday

Cloud Chasers  
9:00 am to 1:00 pm  
(Adult Ed., p. 9)

Saami Hand-crafted Jewelry  
1 pm (Trad. Arts, p. 11)

Member Focus Group  
9:30-11:30 am (Trustees  
Room, p. 2)  
1-3 pm (Trustees Room)

Donald and Lillian Stokes  
lecture (p. 10)

### 18 Tuesday

A History of Early Astronomy  
7-9 pm  
(Adult Ed., p. 9)

### 20 Thursday

Academy Ball  
Millennium Madness (p. 5)

### 22 Saturday

A Parade of Mollusks  
9:30 am to 4:30 pm (Adult  
Ed., p. 9)

Puppet-Making Demonstration  
1 pm (Trad. Arts, p. 11)

Astronomy Day  
10 am to 4 pm (p. 12)

### 24 Monday

Member Focus Group  
9:30-11:30 (Trustees Room,  
p. 2)  
1-3 pm (Trustees Room)

### 25 Tuesday

A History of Early Astronomy  
7-9 pm  
(Adult Ed., p. 9)

### 29 Saturday

Missing Links—Alive! opens  
Meave Leakey lecture

Japanese Sushi  
1 pm (Trad. Arts, p. 11)

Meave Leakey lecture (p. 2)

## VISITOR INFORMATION

### Special Exhibitions:

*Masters of the Night: The True  
Story of Bats*  
through May 2

*The Elkus Collection*  
opens April 17

*Missing Links—Alive!*  
opens May 29

**EARTHQUAKE**  
permanent exhibit

*The Artist's Universe*  
no ending date

*Witness*  
ongoing

Feeding Times:  
Fish Roundabout, 1:30 pm  
Penguins, 11:30 am & 4 pm

Guided Tours:  
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